CLAIMS

What is claimed is:

1.   A method for controlling an antenna system, the method comprising:

collecting information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

determining at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas.

2.   The method according to claim 1, wherein said portion of a plurality of antennas are receiving antennas and a remaining portion of said plurality of antennas are transmitting antennas.

3.   The method according to claim 2, further comprising selecting said at least one starting antenna from said receiving antennas.

4.   The method according to claim 2, further comprising selecting said at least one starting antenna from said transmitting antennas.

5.   The method according to claim 1, further comprising collecting at least one of a plurality of selection metrics associated with said at least one of a plurality of frames received by said portion of a plurality of antennas.

6.   The method according to claim 5, wherein said at least one of a plurality of selection metrics is a power estimation, a signal-to-noise ratio, a packet error rate or bit error rate, a propagation channel characteristic, and/or a channel interference level.

7.   The method according to claim 5, further comprising selecting at least one of said at least one of a plurality of selection metrics to determine said at least one starting antenna.

8.   The method according to claim 1, further comprising selecting at least one of said at least one of a plurality of frames to determine said at least one starting antenna.

9.   The method according to claim 1, further comprising determining said at least one starting antenna based on a majority polling scheme of at least a portion of said collected information.

10.   The method according to claim 1, further comprising determining said at least one starting antenna based on a weighted sum scheme of at least a portion of said collected information.

11.   The method according to claim 10, wherein said weighted sum scheme corresponds to the response of a first-order Infinite Impulse Response (IIR) filter or to the response of a Finite Impulse Response (FIR) filter.

12.   A machine-readable storage having stored thereon, a computer program having at least one code section for controlling an antenna system, the at least one code section being executable by a machine for causing the machine to perform steps comprising:
    collecting information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and
    determining at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas.

13. The machine-readable storage according to claim 12, wherein said portion of a plurality of antennas are receiving antennas and a remaining portion of said plurality of antennas are transmitting antennas.

14. The machine-readable storage according to claim 13, further comprising code for selecting said at least one starting antenna from said receiving antennas.

15. The machine-readable storage according to claim 13, further comprising code for selecting said at least one starting antenna from said transmitting antennas.

16. The machine-readable storage according to claim 12, further comprising code for collecting at least one of a plurality of selection metrics associated with said at least one of a plurality of frames received by said portion of a plurality of antennas.

17. The machine-readable storage according to claim 16, wherein said at least one of a plurality of selection metrics is a power estimation, a signal-to-noise ratio, a packet error rate or bit error rate, a propagation channel characteristic, and/or a channel interference level.

18. The machine-readable storage according to claim 16, further comprising code for selecting at least one of said at least one of a plurality of selection metrics to determine said at least one starting antenna.

19. The machine-readable storage according to claim 12, further comprising code for selecting at least one of said at least one of a plurality of frames to determine said at least one starting antenna.

20. The machine-readable storage according to claim 12, further comprising code for determining said at least one starting antenna based on a majority polling scheme of at least a portion of said collected information.

21. The machine-readable storage according to claim 12, further comprising code for determining said at least one starting antenna based on a weighted sum scheme of at least a portion of said collected information.

22. The machine-readable storage according to claim 21, wherein said weighted sum scheme corresponds to the response of a first-order Infinite Impulse Response (IIR) filter or to the response of a Finite Impulse Response (FIR) filter.

23. A system for controlling an antenna system, the system comprising:

a processor that collects information associated with at least one of a plurality of frames received by a portion of a plurality of antennas; and

said processor determines at least one starting antenna from said plurality of antennas based on said collected information received by said portion of said plurality of antennas.

24. The system according to claim 23, wherein said portion of a plurality of antennas are receiving antennas and a remaining portion of said plurality of antennas are transmitting antennas.

25. The system according to claim 24, wherein said processor selects said at least one starting antenna from said receiving antennas.

26. The system according to claim 24, wherein said processor selects said at least one starting antenna from said transmitting antennas.

27. The system according to claim 23, wherein said processor collects at least one of a plurality of selection metrics associated with said at least one of a plurality of frames received by said portion of a plurality of antennas.

28.   The system according to claim 27, wherein said at least one of a plurality of selection metrics is a power estimation, a signal-to-noise ratio, a packet error rate or bit error rate, a propagation channel characteristic, and/or a channel interference level.

29.   The system according to claim 27, wherein said processor selects at least one of said at least one of a plurality of selection metrics to determine said at least one starting antenna.

30.   The system according to claim 23, wherein said processor selects at least one of said at least one of a plurality of frames to determine said at least one starting antenna.

31.   The system according to claim 23, wherein said processor determines said at least one starting antenna based on a majority polling scheme of at least a portion of said collected information.

32.   The system according to claim 23, wherein said processor determines said at least one starting antenna based on a weighted sum scheme of at least a portion of said collected information.

33.   The system according to claim 32, wherein said weighted sum scheme corresponds to the response of a first-order Infinite Impulse Response (IIR) filter or to the response of a Finite Impulse Response (FIR) filter.